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An image management system comprising:

an image manager having a plurality of inputs and outputs, the inputs configured to receive image information signals and the outputs configured to provide image output signals, the image manager configured to store information representative of a plurality of two dimensional image slices, and the output signals representative of the stored two dimensional image slices;

an imaging device having an output coupled to at least one of the inputs of the image manager, and configured to provide an image signal; and

an image workstation having an input coupled to at least one of the outputs of the image manager, and configured to receive output signals from the image manager representative of selected two dimensional image slices stored by the image manager, the image workstation configured to construct three dimensional image renderings from the two dimensional image slices and the image workstation having an output coupled to the image manager and configured to provide the image manager with a signal representative of the three dimensional rendering.

2. The image management system of claim 1 wherein the three dimensional rendering may be stored by the image manager as a three dimensional rendering file.

3. The image management system of claim 2 wherein the three dimensional rendering file may be selectively communicated to an image workstation.

4. The image management system of claim 1 wherein the image manager includes a picture archival and communications system (PACS) server.

5. The image management system of claim 4 wherein the image workstation is a picture archival and communication system (PACS) workstation.

6. The image management system of claim 1 wherein the imaging device is a medical imaging device.

7. The image management system of claim 2 wherein the image manager includes a three dimensional rendering file storage.

8. The image management system of claim 1 wherein the image workstation is configured to provide a three dimensional rendering by multi-plane reconstruction (MPR).

5 9. The image management system of claim 1 wherein the image workstation is configured to provide a three dimensional rendering by multi-plane volume reconstruction (MPVR).

10. The image management system of claim 1 wherein the image workstation is configured to provide a three dimensional rendering by maximum intensity pixel (MIP) projection.

10 11. The image management system of claim 1 wherein the image workstation is configured to provide a three dimensional rendering by volume rendering.

12. The image management system of claim 1 wherein the image workstation is configured to provide a three dimensional rendering by surface rendering.

15 13. The image management system of claim 1 wherein the three dimensional rendering file includes the parameters needed to reconstruct the three dimensional image rendering.

14. A method of producing a rendering of a three dimensional object from a plurality of two dimensional image information files, comprising:
receiving, by an image manager, a plurality of two dimensional image
20 information files from an imaging device;
storing a plurality of two dimensional image files on the image manager;
communicating selected two dimensional image information files to an image workstation;
25 receiving a two dimensional image information file by the image workstation;
constructing a three dimensional image file based on the two dimensional image information files; and

communicating the three dimensional image information file to the image manager.

15. The method of claim 14 wherein the image manager includes a picture archival and communications system (PACS).

5 16. The method of claim 14 wherein the image workstation includes a picture archival and communications system (PACS) workstation.

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17. The method of claim 14 further comprising:
receiving a plurality of two dimensional image slices by the image workstation.

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18. The method of claim 14 wherein the imaging device is a medical imaging device.

19. The method of claim 14 wherein the communicating step is carried out over an ethernet connection.

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20. The method of claim 14 further comprising:
storing the three dimensional image file by the image manager.

21. The method of claim 20 further comprising:
communicating the three dimensional image file stored by the image manager to an image workstation.

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22. The method of claim 14 wherein the three dimensional image information file includes the parameters needed to reconstruct the three dimensional image rendering.

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23. A medical imaging system, comprising:
a medical scanner;
an image manager coupled to the medical scanner and configured to
25 receive and store signals representative of two dimensional image slices from the medical scanner;

an image workstation configured to receive selected signals representative of two dimensional image slices and configured to construct a three dimensional rendering file from the signals representative of the two dimensional image slices,

5 wherein the three dimensional rendering file is communicated to and stored by the image manager.

24. The medical imaging system of claim 23 wherein the image manager includes a picture archival system (PACS) server.

10 25. The medical imaging system of claim 24 wherein the image workstation includes a picture archival system (PACS) workstation.

26. The medical imaging system of claim 23 wherein the medical scanner is an ultrasound imaging device.

27. The medical imaging system of claim 23 wherein the medical scanner is a magnetic resonance imaging (MRI) device.

15 28. The medical imaging system of claim 23 wherein the medical scanner is a computed tomography (CT) imaging device.

29. The medical imaging system of claim 23 wherein the image workstation includes a display.

20 30. The medical imaging system of claim 29 wherein the image workstation is configured to provide a partial three dimensional rendering representative of the three dimensional rendering file on the display.

31. The medical imaging system of claim 23 wherein the three dimensional rendering file may be selectively communicated to an image workstation.

25 32. The medical imaging system of claim 23 wherein the three dimensional rendering file includes the parameters needed to reconstruct the three dimensional image rendering.